

## REPORT

**SUPPLEMENT TO**

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Sanitized Copy Approved for Release 2011/06/29 : CIA-RDP80-00809A000600200095-6

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"Detecting Hydrogen Sulfide in the Blood of Poisoned Animals," I. D. Gadaskina, Leningrad Inst of Hygiene and Occupational Diseases

"Farmakol i Toksikol" Vol 9, No 1, 1946, pp 47-51

Rabbits and cerebrectomized, tracheotomized cats have only traces of  $H_2S$ , or none, in the blood after 7-30 minutes of breathing air containing  $H_2S$  (up to one mg/liter). Lethal doses (1-2 mg/liter for 15-17 minutes or 3-3.5 mg/liter for 3-20 minutes) introduce readily detectable concentrations of  $H_2S$  into the blood. Animals then die in 2-10 minutes after the end of the exposure period. Oxidation of  $H_2S$  in the blood continues, though slowly, after death. Samples of cardiac blood taken immediately, 10 minutes, and 1 hour after death underwent slow oxidation in vitro, often with complete disappearance of  $H_2S$  within 2 hours. Detection of  $H_2S$  in blood has diagnostic and possible medicolegal significance in accidental and occupational poisoning.

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